

## Water Management

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Lucas County, Iowa

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
13B: Zook-----	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.95 0.10
Olmitz-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.05	Very limited Deep to water	1.00
Vesser-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.11	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
23C: Arispe-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
23C2: Arispe-----	Somewhat limited Seepage	0.70	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill Deep to water Cutbanks cave	0.30 0.25 0.10
24D: Shelby-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Deep to water	1.00
24D2: Shelby-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Deep to water	1.00
24E2: Shelby-----	Somewhat limited Seepage Slope	0.05 0.04	Not limited		Very limited Deep to water	1.00
24E3: Shelby-----	Somewhat limited Seepage Slope	0.05 0.04	Not limited		Very limited Deep to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
24F2: Shelby-----	Somewhat limited Slope Seepage	0.18 0.05	Not limited		Very limited Deep to water	1.00
51: Vesser-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.11	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
51+: Vesser-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.11	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
51B: Vesser-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.11	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
51B+: Vesser-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.11	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
54: Zook-----	Somewhat limited Seepage	0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.98	Somewhat limited Slow refill Cutbanks cave	0.95 0.10
54+: Zook-----	Somewhat limited Seepage	0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.99	Somewhat limited Slow refill Cutbanks cave	0.30 0.10

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
54B: Zook-----	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.95 0.10
65E: Lindley-----	Somewhat limited Seepage Slope	0.05 0.04	Somewhat limited Piping	0.56	Very limited Deep to water	1.00
65E2: Lindley-----	Somewhat limited Seepage Slope	0.05 0.04	Somewhat limited Piping	0.59	Very limited Deep to water	1.00
65F: Lindley-----	Somewhat limited Slope Seepage	0.18 0.05	Somewhat limited Piping	0.56	Very limited Deep to water	1.00
65F2: Lindley-----	Somewhat limited Slope Seepage	0.18 0.05	Somewhat limited Piping	0.59	Very limited Deep to water	1.00
65G: Lindley-----	Somewhat limited Slope Seepage	0.64 0.05	Somewhat limited Piping	0.56	Very limited Deep to water	1.00
65G2: Lindley-----	Somewhat limited Slope Seepage	0.64 0.05	Somewhat limited Piping	0.59	Very limited Deep to water	1.00
93D2: Shelby-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Deep to water	1.00
Adair-----	Somewhat limited Seepage Slope	0.05 0.01	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
94D2: Mystic-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.30
	Slope	0.01	Seepage	0.03	Cutbanks cave Deep to water	0.10 0.01
Caleb-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.13	Somewhat limited Deep to water	0.81
	Slope	0.01			Slow refill	0.30
					Cutbanks cave	0.10
94E2: Mystic-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.30
	Slope	0.04	Seepage	0.03	Cutbanks cave Deep to water	0.10 0.01
Caleb-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.13	Somewhat limited Deep to water	0.81
	Slope	0.04			Slow refill	0.30
					Cutbanks cave	0.10
131B: Pershing-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill	0.95
					Deep to water Cutbanks cave	0.25 0.10
131C: Pershing-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill	0.95
					Deep to water Cutbanks cave	0.25 0.10
131C2: Pershing-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill	0.95
					Deep to water Cutbanks cave	0.25 0.10

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
131D2: Pershing-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill	0.95
	Slope	0.01			Deep to water Cutbanks cave	0.25 0.10
132B: Weller-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill	0.95
					Deep to water Cutbanks cave	0.25 0.10
132C: Weller-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill	0.95
					Deep to water Cutbanks cave	0.25 0.10
132C2: Weller-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill	0.95
					Deep to water Cutbanks cave	0.25 0.10
132D2: Weller-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill	0.95
	Slope	0.01			Deep to water Cutbanks cave	0.25 0.10
172: Wabash-----	Not limited		Very limited Depth to saturated zone	1.00	Very limited Slow refill	1.00
			Hard to pack	1.00	Cutbanks cave	0.10
179D2: Gara-----	Somewhat limited Seepage	0.05	Not limited		Very limited Deep to water	1.00
	Slope	0.01				

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
179E: Gara-----	Somewhat limited Seepage Slope	0.05 0.04	Not limited		Very limited Deep to water	1.00
179E2: Gara-----	Somewhat limited Seepage Slope	0.05 0.04	Not limited		Very limited Deep to water	1.00
179E3: Gara-----	Somewhat limited Seepage Slope	0.05 0.04	Not limited		Very limited Deep to water	1.00
179F: Gara-----	Somewhat limited Slope Seepage	0.18 0.05	Not limited		Very limited Deep to water	1.00
179F2: Gara-----	Somewhat limited Slope Seepage	0.18 0.05	Not limited		Very limited Deep to water	1.00
179G2: Gara-----	Somewhat limited Slope Seepage	0.64 0.05	Not limited		Very limited Deep to water	1.00
192C2: Adair-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill  Cutbanks cave Deep to water	0.95  0.10 0.01
192D2: Adair-----	Somewhat limited Seepage  Slope	0.05  0.01	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill  Cutbanks cave Deep to water	0.95  0.10 0.01
211: Edina-----	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 0.48	Somewhat limited Slow refill  Cutbanks cave	0.30  0.10

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
220: Nodaway-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
222C: Clarinda-----	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 0.91	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01
222C2: Clarinda-----	Somewhat limited Seepage	0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.96	Somewhat limited Slow refill Cutbanks cave Deep to water	0.99 0.10 0.01
222C3: Clarinda-----	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 0.96	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01
222D2: Clarinda-----	Somewhat limited Seepage	0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.96	Somewhat limited Slow refill Cutbanks cave Deep to water	0.99 0.10 0.01
	Slope	0.01				
223C2: Rinda-----	Not limited		Very limited Hard to pack Depth to saturated zone	1.00 1.00	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01
223D2: Rinda-----	Somewhat limited Slope	0.01	Very limited Hard to pack Depth to saturated zone	1.00 1.00	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
269: Humeston-----	Somewhat limited Seepage	0.57	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.43 0.10
269+: Humeston-----	Somewhat limited Seepage	0.57	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
273B: Olmitz-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.05	Very limited Deep to water	1.00
273C: Olmitz-----	Somewhat limited Seepage	0.70	Somewhat limited Piping	0.05	Very limited Deep to water	1.00
313D2: Gosport-----	Somewhat limited Depth to bedrock Slope	0.11 0.01	Very limited Hard to pack Depth to saturated zone Thin layer	1.00 0.95 0.86	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.02
313E2: Gosport-----	Somewhat limited Depth to bedrock Slope	0.11 0.04	Very limited Hard to pack Depth to saturated zone Thin layer	1.00 0.95 0.86	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.02
313F: Gosport-----	Somewhat limited Slope Depth to bedrock	0.18 0.11	Very limited Hard to pack Depth to saturated zone Thin layer	1.00 0.95 0.86	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.02
313F2: Gosport-----	Somewhat limited Slope Depth to bedrock	0.18 0.11	Very limited Hard to pack Depth to saturated zone Thin layer	1.00 0.95 0.86	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.02



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362: Haig-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Hard to pack	1.00 0.60	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
364B: Grundy-----	Not limited		Somewhat limited Depth to saturated zone Hard to pack	0.95 0.75	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.02
423C2: Bucknell-----	Not limited		Very limited Depth to saturated zone Hard to pack	1.00 0.35	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01
423D: Bucknell-----	Somewhat limited Slope	0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.34	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01
423D2: Bucknell-----	Somewhat limited Slope	0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.35	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.01
425D: Keswick-----	Somewhat limited Seepage Slope	0.05 0.01	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01
425D2: Keswick-----	Somewhat limited Seepage Slope	0.05 0.01	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
430: Ackmore-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.01	Somewhat limited Slow refill  Cutbanks cave Deep to water	0.30  0.10 0.01
451D2: Caleb-----	Somewhat limited Seepage Slope	0.70 0.01	Somewhat limited Piping	0.13	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
451E2: Caleb-----	Somewhat limited Seepage Slope	0.70 0.04	Somewhat limited Piping	0.13	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
452C: Lineville-----	Not limited		Very limited Depth to saturated zone	1.00	Very limited Slow refill  Cutbanks cave Deep to water	1.00  0.10 0.01
452C2: Lineville-----	Not limited		Very limited Depth to saturated zone	1.00	Very limited Slow refill  Cutbanks cave Deep to water	1.00  0.10 0.01
453: Tuskeego-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill  Cutbanks cave	0.30  0.10
470D2: Lamoni-----	Somewhat limited Slope	0.01	Very limited Depth to saturated zone	1.00	Very limited Slow refill  Cutbanks cave Deep to water	1.00  0.10 0.01
Shelby-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Deep to water	1.00

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
484: Lawson-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.85	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
587: Chequest-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00 0.12	Somewhat limited Slow refill Cutbanks cave	0.95 0.10
587+: Chequest-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone Hard to pack	1.00 0.08	Somewhat limited Slow refill Cutbanks cave	0.30 0.10
592C2: Mystic-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Seepage	1.00 0.03	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
592D2: Mystic-----	Somewhat limited Seepage Slope	0.70 0.01	Very limited Depth to saturated zone Seepage	1.00 0.03	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
711: Nodaway-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
Lawson-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.85	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01

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792C: Armstrong-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.95
					Cutbanks cave Deep to water	0.10 0.01
792C2: Armstrong-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.95
					Cutbanks cave Deep to water	0.10 0.01
792D: Armstrong-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.95
	Slope	0.01			Cutbanks cave Deep to water	0.10 0.01
792D2: Armstrong-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.95
	Slope	0.01			Cutbanks cave Deep to water	0.10 0.01
792D3: Armstrong-----	Somewhat limited Seepage	0.05	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.95
	Slope	0.01			Cutbanks cave Deep to water	0.10 0.01
822C: Lamoni-----	Not limited		Very limited Depth to saturated zone	1.00	Very limited Slow refill	1.00
					Cutbanks cave Deep to water	0.10 0.01
822C2: Lamoni-----	Not limited		Very limited Depth to saturated zone	1.00	Very limited Slow refill	1.00
					Cutbanks cave Deep to water	0.10 0.01

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822D: Lamoni-----	Somewhat limited Slope	0.01	Very limited Depth to saturated zone	1.00	Very limited Slow refill  Cutbanks cave Deep to water	1.00  0.10 0.01
822D2: Lamoni-----	Somewhat limited Slope	0.01	Very limited Depth to saturated zone	1.00	Very limited Slow refill  Cutbanks cave Deep to water	1.00  0.10 0.01
831B: Pershing-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill  Deep to water Cutbanks cave	0.95  0.25 0.10
831C: Pershing-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill  Deep to water Cutbanks cave	0.95  0.25 0.10
831C2: Pershing-----	Somewhat limited Seepage	0.05	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Slow refill  Deep to water Cutbanks cave	0.95  0.25 0.10
894D2: Bucknell-----	Somewhat limited Slope	0.01	Very limited Depth to saturated zone Hard to pack	1.00 0.35	Very limited Slow refill  Cutbanks cave Deep to water	1.00  0.10 0.01
Gara-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Deep to water	1.00

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993D2: Gara-----	Somewhat limited Seepage Slope	0.05 0.01	Not limited		Very limited Deep to water	1.00
Armstrong-----	Somewhat limited Seepage Slope	0.05 0.01	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave Deep to water	0.95 0.10 0.01
1711: Nodaway-----	Somewhat limited Seepage	0.70	Very limited Piping	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.81 0.30 0.10
Lawson-----	Somewhat limited Seepage	0.70	Very limited Depth to saturated zone Piping	1.00 0.85	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.01
5021: Orthents-----	Not rated		Not rated		Not rated	
5025: Strip Mines-----	Not rated		Not rated		Not rated	
5040: Orthents-----	Not rated		Not rated		Not rated	
INT: Intermittent Water--	Not rated		Not rated		Not rated	
SL: Sewage Lagoon-----	Not rated		Not rated		Not rated	

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W: Water Less Than 40 Acres-----	Not rated		Not rated		Not rated	